Waterfront Maintenance Note Number 14

SVTT Breech Mechanism Overhaul

Ref: (a) MIP 7511/ Q-1 Test Breech Mechanism for Leakage
(b) MIP 7511/36M-1 Perform Hydrostatic Test
(c) MIP 7511/ 18M-1 Perform Calibration
(d) COMFLTFORCOMINST 4790.3

1. Purpose: To establish procedures for scheduling and conducting torpedo tube breech mechanism overhauls after ship's force corrective action has failed IAW refs (a-d).

2. Background: When breech mechanisms fail the quarterly decay test outlined in ref (a), the repair procedure within the corrective maintenance chapter of the appropriate modification tech manual must be conducted. When the repair procedure does not stop the leak, bimetallic corrosion between the control valve and barrel ring has progressed to the point that a seal cannot be achieved and an overhaul is necessary.

3. Procedure:

a. Ship's Force (S/F) shall:

1) Submit a 2K to SERMC for breech mechanism overhaul. **A single 2K will suffice for one to six breeches using the breech mechanism APL for the appropriate mod.**

2) Deliver breech mechanism and charging hoses to SERMC shop 955B with the breech screws in the open position.

3) Provide at least one ship technician during overhaul and test.

4) Return breech mechanisms to ship after completion of overhaul and hydrostatic testing procedures of ref (b).

5) Witness calibration procedures contained in ref (c).

b. SERMC shall:

1) Determine an appropriate fix for each barrel ring. Unserviceable components will be replaced.

2) Install mandatory replacement items IAW Ref (d).

3) Prep and paint breech mechanisms.

4) Provide ship with copies of hydrostatic test results on QA form 26.

5) Conduct calibration of breech gages and barrel pressure switches.

6) Prove repairs by accomplishing procedures in ref (a), and manual air slugs.

   a) Post testing is accomplished by the same quarterly decay test that identified the deficiency initially. Manual air slugs are also performed to verify a properly functioning firing valve.

4. Point of Contact: For further guidance and information, contact SERMC Undersea Warfare Branch (code 955B) at 904 270-5126 x5803.